

What is claimed is:

1. A method for simultaneously decrypting multiple services received on separate encrypted multiplexed transport streams, comprising the steps of:
 - receiving N encrypted multiplexed transport streams, each transport stream having at least one service;
 - selecting a plurality of desired services from M of said N transport streams;
 - multiplexing said desired services into a desired service multiplex;
 - decrypting the desired service multiplex to obtain a desired decrypted multiplex;
 - and
 - demultiplexing said desired decrypted multiplex.
2. A method in accordance with claim 1, further comprising:
 - at least one of demultiplexing or filtering said M transport streams.
3. A method in accordance with claim 1, wherein at least one of said M transport streams comprises an MPEG stream.
4. A method in accordance with claim 1, wherein:
 - each of said M transport streams comprises one of an MPEG stream or an Internet Protocol based stream.
5. A method in accordance with claim 1, further comprising:
 - resolving conflicts in protocol data among the selected services in the desired service multiplex; and
 - restoring original protocol data to the selected services when demultiplexing the desired decrypted multiplex.

6. A method in accordance with claim 5, wherein said step of resolving conflicts in protocol data comprises re-mapping program identifiers.
7. A method in accordance with claim 5, wherein said step of resolving conflicts in protocol data comprises utilizing transport priority bits from the packet headers of said M transport streams to distinguish between the services selected from said M transport streams.
8. A method in accordance with claim 1, wherein said M transport streams are selected from said N transport streams using a cross-point switching device having N inputs and at least M outputs.
9. A method in accordance with claim 1, wherein:
said N encrypted multiplexed transport streams are provided by a tuning device;
and
said tuning device comprises at least one in-band tuner, at least one out-of-band tuner, at least one DOCSIS tuner, at least one analog encoder, at least one IEEE-1394 network interface, and at least one playback channel from a storage device.
10. A method in accordance with claim 1, wherein:
N equals eight; and
M equals two.
11. A method in accordance with claim 10, wherein:
said eight encrypted multiplexed transport streams are provided by a tuning device; and
said tuning device comprises a first in-band tuner, a second in-band tuner, a DOCSIS tuner, an out-of-band tuner, a first analog encoder, a second analog encoder, an IEEE-1394 network interface, and a playback channel from a storage device.

12. A method in accordance with claim 1, wherein:
one of said M transport streams is provided by a playback channel from a storage device.
13. A method in accordance with claim 12, further comprising:
encrypting MPEG encoded analog transport streams; and
storing said encrypted MPEG encoded analog streams on said storage device.
14. A method in accordance with claim 13, wherein access to said services on said storage device is provided on an on-demand basis for a fee.
15. A method in accordance with claim 1, wherein said selection of said desired services is enabled via a host processor.
16. A method in accordance with claim 1, further comprising:
decoding the decrypted services.
17. A method in accordance with claim 1, wherein said services comprise television services.
18. Apparatus for simultaneously decrypting multiple services received on separate encrypted multiplexed transport streams, comprising:
a tuning device for receiving N encrypted multiplexed transport streams, each transport stream having at least one service;
a host processor for selecting a plurality of desired services from M of said N transport streams;
a multiplexer for multiplexing said desired services into a desired service multiplex;

a decryption device for decrypting the desired service multiplex to obtain a desired decrypted multiplex; and

a first demultiplexer for demultiplexing said desired decrypted multiplex .

19. Apparatus in accordance with claim 18, further comprising at least one of:

a second demultiplexer for demultiplexing said M transport streams,

a filter for filtering said M transport streams.

20. Apparatus in accordance with claim 18, wherein at least one of said M transport streams comprises an MPEG stream.

21. Apparatus in accordance with claim 18, wherein:

each of said M transport streams comprises one of an MPEG stream or an Internet Protocol based stream.

22. Apparatus in accordance with claim 18, wherein:

conflicts in protocol data among the selected services in the desired service multiplex are resolved at said multiplexer; and

original protocol data is restored to the selected services at said demultiplexer when demultiplexing the desired decrypted multiplex.

23. Apparatus in accordance with claim 22, wherein said conflicts in protocol data are resolved by re-mapping program identifiers.

24. Apparatus in accordance with claim 22, wherein conflicts in protocol data are resolved by utilizing transport priority bits from the packet headers of said M transport streams to distinguish between the services selected from said M transport streams.

25. Apparatus in accordance with claim 18, further comprising a cross-point switching device for selecting said M transport streams from said N transport streams, wherein said cross-point switching device has N inputs and at least M outputs.
26. Apparatus in accordance with claim 18, wherein:
said tuning device comprises at least one in-band tuner, at least one out-of-band tuner, at least one DOCSIS tuner, at least one analog encoder, at least one IEEE-1394 network interface, and at least one playback channel from a storage device.
27. Apparatus in accordance with claim 18, wherein:
N equals eight; and
M equals two.
28. Apparatus in accordance with claim 27, wherein:
said tuning device comprises a first in-band tuner, a second in-band tuner, a DOCSIS tuner, an out-of-band tuner, a first analog encoder, a second analog encoder, an IEEE-1394 network interface, and a playback channel from a storage device.
29. Apparatus in accordance with claim 18, further comprising:
a storage device for providing one of said M transport streams via a playback channel.
30. Apparatus in accordance with claim 29, wherein:
MPEG encoded analog transport streams are encrypted at said decryption device; and
said encrypted MPEG encoded analog streams are stored on said storage device.
31. Apparatus in accordance with claim 30, wherein access to said services on said storage device is provided on an on-demand basis for a fee.

32. Apparatus in accordance with claim 18, further comprising:
a decoder for decoding the decrypted services.
33. Apparatus in accordance with claim 18, wherein said services comprise television services.